	***	***		
FFFFFFFFFFFFF	111	111	XXX	XXX
FFFFFFFFFFFF	111	111	XXX	XXX
FFFFFFFFFFFF	111	111	XXX	XXX
FFF	111111	111111	XXX	XXX
FFF	111111	111111	XXX	XXX
FFF	111111	111111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFFFFFFF, FFF	- 111	111		X X
FFFFFFFFFF	111	111		XX
FFFFFFFFFF	111	111		XX
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	111111111	111111111	XXX	XXX
FFF	111111111	111111111	XXX	XXX
FFF	111111111	111111111	XXX	ŶŶŶ

_\$25

Symbolio Collino Colli

MAKE MAP MAP

MAP MARI MARI MARI MARI MARI

FILEID**MAKNMB

MM MM	MM	AAAAA	KK KK	NN NN	MM MM	88888888 88888888
MMMM MMMM MM M	MMMM MM M	AA	KK KK KK KK KK KK	NN	MMMM MMMM MM	BB
			\$			e

MAK VO4

. .

V04

MODULE MAKNMB (

LANGUAGE (BLISS32), IDENT = 'V04-000'

BEGIN

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FACILITY: F11ACP Structure Level 1

ABSTRACT:

This routine converts a file name string into the RAD-50 name block format.

ENVIRONMENT:

STARLET operating system, including privileged system services and internal exec routines.

AUTHOR: Andrew C. Goldstein, CREATION DATE: 2-Jan-1977 17:06

MODIFIED BY:

V03-004 CDS0003 Christian D. Saether 2-Jan-1984 Use longword addressing on external FIL\$ routine.

V03-003 CDS0002 Christian D. Saether 6-Dec-1983 Change LIB\$ references to FIL\$.

70112345671890

```
MAKNMB
V04-000
                                                                                                                                                VAX-11 BLiss-32 V4.0-742 PEDISKSVMSMASTER: [F11X.SRC]MAKNMB.B32;1
                                                    V03-002 ACG0302 Andrew C. Goldstein, 3-Do
Add $ and _ to file names, allow long names
                                                                                                                                   3-Dec-1982 13:55
      V03-001 CDS0001 C. Saether 1-Jul-1982
Don't force absolute addressing mode when declaring external routine lib$cvt_dtb.
                                                                 ACG0057 Andrew C. Go
Wild card interface changes
                          0065
0066
0067
0068
0069
0071
0072
0073
1066
1066
1070
1071
1072
                                                                                                                                   10-Aug-1979 16:41
                                                    A0101
                                                                                            Andrew C. Goldstein,
                                                    A0100 ACG00001 Andrew C. Goldstein, 10-Oct-1978 20:03 Previous revision history moved to F11A.REV
                                       LIBRARY 'SYS$LIBRARY:LIB.L32';
REQUIRE 'SRC$:FCPDEF.832';
                                       ! Linkages to subroutines in this module.
                                       LINKAGE
                                                     L_GETCHAR
                                                                               = JSB :
                                                                                  NOPRESERVE (5)
                                                                                  GLOBAL (COUNT = 6, STRINGP = 7, FCOUNT = 8).
                          1074
1075
1076
1077
1078
1079
1080
1081
1082
1083
1084
1085
1086
1087
                                                    L_GETSTAR
                                                                                  GLOBAL (COUNT = 6. STRINGP = 7),
                                                    L_TYPE
                                                                               = JSB :
                                                                                  GLOBAL (COUNT = 6, STRINGP = 7);
                                        ! Routines in this module
                                       FORWARD ROUTINE
                                                                              : NOVALUE,
: L_GETCHAR,
: L_GETSTAR,
: L_TYPE;
                                                                                                            main routine
get RAD-50 set character
get star character, if any
determine type of current character
                                                    MAKE NAMEBLOCK
GETCHAR
                                                     GETSTAR
                                                     TYPE
```

CH\$FILL (O, NMB\$C_LENGTH, .NAMEBLOCK); ! zero the entire block STRINGP = .STRING; ! set up string pointer P = CH\$FIND_CH (.LENGTH, .STRINGP, ''); ! look for a terminating space

```
MAKNM8
V04-000
                                                                                                                                                VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[F11X.SRC]MAKNMB.B32;1
                                       COUNT = .P - .STRINGP;
IF CHSFAIL (.P)
THEN COUNT = .LENGTH;
BLOCKP = NAMEBLOCK[NMBSW_NAME];
                                                                                                         ! compute count
    1589
1663
1666
1666
1666
1667
1773
1776
1778
1886
1889
191
                                                                                                            use whole string if no space
point to name field in block
init chars in field count
                          1149
1150
1151
1152
1153
1154
1156
1157
1159
1160
                                       FCOUNT = 0:
                                          Build the name field, consisting of 3 words of 3 RAD-50 characters per word.
                                       DECR I FROM 3 TO 1 DO
                                             BEGIN

DECR J FROM 3 TO 1 DO

BLOCKP[0] = .BLOCKP[0] * 40 + GETCHAR ();

BLOCKP = .BLOCKP + 2;
                          1161
1162
1163
1164
165
166
                                          Eat remaining trailing name field characters.
                                       WHILE 1 DO
BEGIN
                                              CASE TYPE () FROM 0 TO 6 OF
                           169
170
171
                                                    [0,4,5,6]: EXITLOOP;
[INRANGE, OUTRANGE]:
BEGIN
                          1172
1173
1174
1175
1176
1177
1178
1179
1180
1181
                                                           COUNT = .COUNT - 1:
                                                           STRINGP = .STRINGP + 1;
                                                    TES;
                                              END:
                                       IF GETSTAR ()
                                                                                                        ! set wild card bits if star
                                       THEN
    192
                                              BEGIN
                                              NAMEBLOCK[NMB$V_WILD] = 1;
NAMEBLOCK[NMB$V_ALLNAM] = 1;
    194
195
196
197
                          1184
1185
1186
1187
                                          Pick up the name delimiter, which is either dot or end of string.
     198
                          1188
1189
1190
1191
1192
1193
1194
1196
1197
     200
201
202
203
204
205
206
208
209
                                       CASE TYPE () FROM 1 TO 5 OF
                                              SET
[1,2,3,4]:
[5]:
                                                                  ERR_EXIT (SS$_BADFILENAME);
                                                                  BEGIN
                                                                  COUNT = . COUNT - 1:
                                                                                                         ! pick up the character
                                                                  STRINGP = .STRINGP + 1:
                                                                  END;
                                              [OUTRANGE]:
TES;
                          1198
1199
     210
                                           Now build the type field, consisting of 1 word of 3 RAD-50 characters.
                          1200
1201
1202
                                    2 FCOUNT = 0;
                                                                                                         ! re-init chars in field count
```

**F

NAMEBLOCK, RO

00

MAK VO4

1182

MAKNMB V04-000			1 8 16-Se 14-Se	9-1984 00:4 9-1984 12:3	3:42 VAX-11 BLiss-32 V4.0-742 0:34 DISKSVMSMASTER: [F11X.SRC]M/	AKNMB.832;1 (2)
00000000G 00007FFF	52 7E 00 05 8F 62	82E650F E5F	15 0010B C0 0010D DD 00110 7D 00112 FB 00115 EB 0011C BF 0011F 23s 04 00123 D1 00124 24s 1B 0012B BF 0012D 04 00131 B0 00132 25s 04 00135 26s	RET CMPL BLEQU CHMU RET	26\$ #2. BLOCKP SP COUNT, -(SP) #3. FILSCVT_DTB R0. 24\$ #2072 VERSION, #32767 25\$ #2080 VERSION, (BLOCKP)	1258 1257 1258 1259 1260

; Routine Size: 310 bytes, Routine Base: \$CODE\$ + 0000

```
MAKNM8
V04-000
                                                                                                                         VAX-11 Bliss-32 V4.0-742
DISKSVMSMASTER:[F11x.SRC]MAKNMB.832;1
                                                                                        16-Sep-1984 00:43:42
14-Sep-1984 12:30:34
                                            CHAR = .CHAR - 'A' + 1:
                                                                                        ! convert to RAD-50 code
    COUNT = .COUNT - 1;
STRINGP = .STRINGP + 1;
FCOUNT = .FCOUNT + 1;
                                                                                          advance to next character
                                                                                        ! count character in field
                                            END:
                                      [2]:
                                                                                        ! lower case alpha
                                            BEGIN
                                             CHAR = .CHAR - 'a' + 1;
                                                                                           convert to RAD-50 code
                                            COUNT = .COUNT - 1;
STRINGP = .STRINGP + 1;
FCOUNT = .FCOUNT + 1;
                                                                                         advance to next character
                                                                                        ! count character in field
                                            END:
                                      [3]:
                                                                                         ! numeric
                                            BEGIN
                                            CHAR = .CHAR - "0" + 30:
                                                                                           convert to RAD-50 code
                                            COUNT = .COUNT - 1;
STRINGP = .STRINGP + 1;
FCOUNT = .FCOUNT + 1;
                                                                                          advance to next character
                                                                                        ! count character in field
                                            END:
                                      [7]:
                                                                                        ! dollar sign
                                            BEGIN
                                            CHAR = 27;
COUNT = .COUNT - 1;
STRINGP = .STRINGP + 1;
FCOUNT = .FCOUNT + 1;
                                                                                          convert to RAD-50 code
                                                                                         ! advance to next character
                                                                                        ! count character in field
                                            END:
                                      [8]:
                                                                                        ! underscore
                                            BEGIN
                                            CHAR = 29:
                                                                                          convert to RAD-50 code
                                            COUNT = .COUNT - 1;
STRINGP = .STRINGP + 1;
FCOUNT = .FCOUNT + 1;
                                                                                          advance to next character
                                                                                        ! count character in field
                                            END:
                                      [4]:
                                                                                        ! star - legal as only char in field
                      1358
1359
1360
1361
1363
1364
1365
1366
                                            BEGIN
                                            CHAR = 0:
                                            IF .FCOUNT NEG O THEN ERR_EXIT (SS$_BADFILENAME);
                                            END:
                                      TES:
                                 RETURN . CHAR;
                                 END:
                                                                                        ! end of routine GETCHAR
                                                                                  00000 GETCHAR: MOVZBL
00003 BSBW
00006 CASEL
0000A 1$: .WORD
                                                                      67 9A
0000V 30
50 CF
                                                     55
                                                                                                                                                                                1316
                                                                                                                 (STRINGP), CHAR
                                                                                                                 TYPE
                                                                                                                 RO. #0, #8
                                001C
            2500
                                                   0016
                                                                                                                 28-18,-
                                                                       0037
                                                                                                                  15-15,-
                                                   0012
                                                                                                                 28-18 -
```

V04

: R

MAKNMB V04-000		16-Sep-1984 00:43:42 VAX-11 BLiss-32 V4.0-742 14-Sep-1984 12:30:34 DISKSVMSMASTER:[F11X.SRC]MAKNI	MB.832;1 (3)
	\$5 \$5 \$5 \$5	25-15,- 65-15- 75-15 20 11 0001c 28: CLRL CHAR 108 108 CO A\$ 9E 00020 38: MOVAB -64(R5), CHAR A0 A\$ 9E 00026 48: MOVAB -96(R5), CHAR 0D 11 00024 BRB 88 12 C2 0002C 58: SUBL2 #18, CHAR 08 11 0002F BRB 88 18 D0 00031 68: MOVL #27, CHAR 03 11 00034 RBRB 88 10 D0 00036 78: MOVL #27, CHAR 10 D0 00036 78: MOVL #29, CHAR 10 D0 00037 BRB 105 11 COUNT 12 CLRL CHAR 13 D5 00043 TSTL FCOUNT 15 BRB 108 15 BF 00047 CHMU #2072 18 BF BF 00047 CHMU #2072 18 BF BF 00047 RSB 10 00046 CHAR, RO 10 00046 CHAR, RO	1321 1324 1325 1331 1338 1338 1345 1353 1354 1355 1318 1359 1360

```
VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[F11X.SRC]MAKNMB.832;1
MAKNMB
V04-000
                            ROUTINE GETSTAR : L_GETSTAR =
   FUNCTIONAL DESCRIPTION:
                                     This routine gobbles the next character in the input string if it is a star.
                              CALLING SEQUENCE:
GETSTAR ()
                  INPUT PARAMETERS:
                                     NONE
                              IMPLICIT INPUTS:
                                     COUNT: number of characters in input string STRINGP: input string pointer
                              OUTPUT PARAMETERS:
                                     NONE
                              IMPLICIT OUTPUTS:
                                     NONE
                              ROUTINE VALUE:
1 if character was a star
                                     0 otherwise
                              SIDE EFFECTS:
                                     COUNT decremented, STRINGP incremented if character was star.
                            BEGIN
                            EXTERNAL REGISTER
                                     COUNT = 6.
STRINGP = 7
                                                                           ! characters remaining in string
                                                        : REF VECTOR [.BYTE]: ! string pointer
                            IF .COUNT GTR O AND .STRINGP[0] EQL '+'
                            THEN
                                BEGIN
                                 COUNT = . COUNT - 1;
                                 STRINGP = .STRINGP + 1;
                                END
                            ELSE
                                 0
                            END:
                                                                           ! end of routine GETSTAR
```

V04

MAKNMB V04-000		N 8 16-Sep-1984 00:43:42 VAX-11 Bliss-32 V4.0-742 Page 13 14-Sep-1984 12:30:34 DISKSVMSMASTER:[F11x.SRC]MAKNMB.B32;1 (4)					
	2A	0D 15 00002 BLEG (STRINGP), #42 08 12 00007 BNEQ 15 56 D7 00009 DECL COUNT 57 D6 0000B INCL STRINGP 01 D0 0000D MOVL #1, RO 05 00010 RSB 50 D4 00011 18: CLRL RO 05 00013 RSB	1410				
	50	08 12 00007 BNEQ 18 56 D7 00009 DECL COUNT 57 D6 0000B INCL STRINGP 01 D0 0000D MOVL #1, R0	1410 1411 1409				
		05 00010 RSB 50 D4 00011 18: CLRL RO 05 00013 RSB	1407 1417				

; Routine Size: 20 bytes, Routine Base: \$CODE\$ + 0186

```
MAKNMB
V04-000
                                                                                                     16-Sep-1984 00:43:42
14-Sep-1984 12:30:34
                                                                                                                                          VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[F11X.SRC]MAKNMB.B32;1
    489
491
492
493
494
496
497
498
499
500
IF .COUNT LEG O THEN RETURN O:
                                      INCR I FROM 1 TO 8 DO

IF .STRINGP[0] GEQU .LOWCHAR[.]]

AND .STRINGP[0] LEQU .HIGHCHAR[.]]

THEN RETURN .1;
                                      ERR_EXIT (SS$_BADFILENAME);
                                                                                                    ! other characters are illegal
                                     END:
                                                                                                    ! end of routine TYPE
                                                                                              0019A P.AAA:
0019B
001A3 P.AAB:
001A4
                                                                                                                    .BYTE
                                                                                       00
41
00
5A
                                                                                                                                \Aa0 . ; $_\
                                                                                                                    .BYTE
                                                                                                                                 \Zz9+.;$_\
                                                                                                       LOWCHAR=
HIGHCHAR=
                                                                                                                                       P.AAA
                                                                                                                                       P.AAB
                                                                                              00000 TYPE:
00002
00004
00007 1$:
                                                                                                                                 COUNT
3$
                                                                                                                                                                                                        1477
                                                                                         D5 15 D0 91 F3 F3
                                                                                                                    TSTL
                                                                                   56
1A
01
67
07
67
08
8F
                                                                                                                    BLEQ
                                                                                                                    MOVL
                                                                                                                                                                                                         1480
                                                     EZ AF40
                                                                                                                                 (STRINGP), LOWCHAR[1]
                                                                                                                    CMPB
                                                                                             00007
00000E
000013
00015
00019
00010
                                                                                                                    BLSSU
                                                                                                                                 (STRINGP), HIGHCHAR[I]
                                                     E4 AF40
                                                                                                                    CMPB
                                                                                                                                                                                                         1481
                                                                                                                                4$
#8, 1, 1$
#2072
                                                                                                                    BLEQU
                                       EE
                                                             50
                                                                                                                    AOBLEQ
                                                                                                                                                                                                         1480
                                                                        0818
                                                                                                                    CHMU
                                                                                                                    RSB
                                                                                              0001E 38:
00020 48:
                                                                                   50
                                                                                                                                RO
                                                                                                                    CLRL
                                                                                                                                                                                                        1487
                                                                                                                    RSB
: Routine Size: 33 bytes,
                                              Moutine Base: $CODE$ + 01AC
                                  1 END
0 ELUDOM
                                                             PSECT SUMMARY
                                                                                                   Attributes
            Name
                                                   Bytes
```

\$CODE\$

461 NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

MAKNMB V04-000 16-Sep-1984 00:43:42 14-Sep-1984 12:30:34

VAX-11 BLiss-32 V4.0-742 Page 16 DISK\$VMSMASTER:[F11X.SRC]MAKNMB.B32;1 (5)

MAK VO4

Library Statistics

File Total Loaded Percent Mapped Time

\$255\$DUA28:[SYSLIB]LIB.L32;1 18619 25 0 1000 00:02.0

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$: MAKNMB/OBJ=OBJ\$: MAKNMB MSRC\$: MAKNMB/UPDATE=(ENH\$: MAKNMB)

: Size: 443 code + 18 data bytes
: Run Time: 00:15.7
: Elapsed Time: 00:33.1
: Lines/CPU Min: 5694
: Lexemes/CPU-Min: 21183
: Memory Used: 176 pages
: Compilation Complete

0171 AH-BT13A-SE

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